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4 May 1956

MEMORANDUM FOR THE RECORD

THROUGH: Contracting Officer

SUBJECT: Report of Trip to Aerial Reconnaissance Lab, WADC, WPAF Base, Ohio, 1 May - 3 May 1956

Purpose:

To review R. & D. progress in the field of aerial reconnaissance with emphasis on processing, printing and interpretation equipment and techniques.

Results:

1. During visit to Data Reduction Branch I discussed processing and printing equipment with the various Section Chiefs and Project Engineers. In addition to viewing some of the equipment I obtained technical information which is in our files for reference.
2. In talks with members of the Utilization and Dissemination Branch the following reports were obtained:
 - a. A Bibliography of Photo Interpretation Techniques. This is a source book produced by Library of Congress under contract to WADC.
 - b. A Technical Paper entitled "Preliminary Analysis of Methods for Computing Scale Numbers for LOGOP." Produced by Ohio State University for WADC. This paper may be of help to Messrs. Lundahl and Mullinax in support of the Project. I have notified Mr. Lundahl the above documents are available for his use.
 - c. In addition to the two papers mentioned I read another entitled "Intelligence Extraction from Thermal Reconnaissance Devices. A Preliminary Report on Interpretation Techniques to be used for Effective Intelligence Extraction." This study was started in November 1955. Its primary purpose was to survey the capabilities of TRD and by means of annotated examples show target presentation. To the best of my knowledge this is the only paper in existence which in plain language and simple examples gives the layman an answer to the "potential of TRD." I informed [redacted] of the papers existence and the steps to take to obtain the document.
3. Examined new portable light table and requested table be forwarded at earliest date. Table will be shipped 4 May 1956. Many of the novel features of this table can be incorporated into design of 7000 viewer now being undertaken by Reed Research for this project.

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4. Extracted results of RB-52 photographic tests were read and are quoted below for information purposes.

"Photo tests in RB-52 B /Q10 have been completed. Average resolution of vertical T-11 in tri-ast station was 20 1/M. An average resolution of 18 1/M was obtained with K-38 split vertical cameras in multi-station. K-36 yielded resolution of 16 1/M at 30,000' and 45,000'. ACIC is evaluating charting photography over Phoenix area using stabilized torque mount in vertical position of tri-ast."

"No problem areas discovered during flight testing nor have any reports been received from Castle AF Base indicating photo problems of a serious nature."

Recommendation

In order to obtain technical details which may be of assistance to this project it is recommended that steps be taken to obtain the full RB-52 test program results.

Distribution:

- Orig - Project Director
- 2 - D. Project Director
- 3 - Operations
- 4 - CONTROL/AF
- 5 - ACQUISITION Com.
- 6 - A. Lendahl
- 7 -
- 8 - ~~Carone~~
- 9 - Reading

LSK:lmr (7 May 1956)

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